



Department of Energy

Washington, DC 20585

January 9, 2016

Mr. David Seely
U.S. Environmental Protection Agency
Region 5 (SR-6J)
77 W. Jackson Blvd.
Chicago, IL 60604-3590

Mr. Thomas A. Schneider
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402

Dear Mr. Seely and Mr. Schneider:

SUBJECT: Transmittal of the December 2016 Fernald Quarterly Inspection Report

This letter is the December 2016 quarterly inspection report for the Fernald Preserve at the Fernald, Ohio, Site. Inspections are conducted as directed by the *Comprehensive Legacy Management and Institutional Controls Plan* (LMICP) (LMS/FER/S03496). This letter also fulfills the reporting requirements specified in the Environmental Covenant, which is Appendix D of the *Consent Decree Resolving Ohio's Natural Resource Damage Claim Against DOE*. The inspections confirm that the activity and use limitations for the Fernald Preserve remain in place and are being complied with.

This December inspection report includes results from the On-Site Disposal Facility (OSDF) and site inspections that were conducted from December 1 through December 12. As stated in the 2016 LMICP, site inspections consist of two components: point-specific institutional control (IC) inspections and field walk-downs. All field walk-downs are scheduled during the dormant-vegetation months of November through April. Results in this report are included for the following inspections:

INSPECTION TYPE	DATE	PARTICIPANTS
OSDF Inspection	December 1, 2016	Ohio Department of Health and Navarro
IC Inspection	December 8–12, 2016	Navarro
Field Walk-down (West Quadrant)	December 7, 2016	Ohio Environmental Protection Agency (Ohio EPA), Ohio Department of Health and Navarro

Findings from the field walk-down are included on the attached *Fernald Preserve Field Walk-down Inspection* (LMS 3046FER) summary and on the associated map (Figure 1). Findings from the point-specific IC inspection are documented on the attached *Fernald Preserve Institutional Control Inspection* (LMS 3047FER) form. Findings from the OSDF inspection are recorded on the attached *Fernald Preserve OSDF Walk-down Inspection* (LMS 3045FER) and



on the associated map (Figure 2). Photographs of the OSDF and the surrounding area were taken to accompany the OSDF inspection and are also included.

Findings from Site Inspections

A field walk-down took place on December 7, 2016. It was conducted with participation from Navarro, the Ohio EPA, and the Ohio Department of Health. The field walk-down was through the West Quadrant, which includes the North Woodlot and all property west of Paddys Run. The findings were primarily related to deer exclosure fencing in need of repair.

Point-specific ICs were inspected from December 8 through December 12. Findings during the inspection were minor. One of the north perimeter signs was removed during a construction project so that it would not be damaged by moving equipment. That sign needs to be replaced.

Fencing that was installed in 2015 around the main drainage corridor's 60-inch culvert inlet is working as intended. There has been no beaver activity at the inlet since its installation. The original grating remains in place and is functional.

DOE is committed to providing quarterly summary numbers regarding debris findings. Five pieces of debris were surveyed and none were found to have fixed contamination. Two of the surveyed pieces were left in place. They are believed to be remnants of the historic home site along Paddys Run. The other three surveyed pieces were free released. Surveyed debris is a combination of debris from inspection follow-up, discoveries during construction activities, and casual observation while in the field.

Findings from OSDF Inspection

The December 2016 OSDF inspection took place on December 1 with participation from Navarro and the Ohio Department of Health. The inspection included a walk-down inspection of the OSDF cap, toe, drainages, and fence line. Pursuant to the LMICP, a Navarro civil engineer participated in the cap walk-down.

Most findings on the cap were related to the presence of invasive woody vegetation. A prescribed burn took place on March 29, 2016, on Cell Caps 4, 5, and 6. The vegetated caps appeared to be responding well to this management approach. It was noted during the inspection, and demonstrated by the documented findings, that although there is a significant presence of woody vegetation on the OSDF cap, the density of the woody vegetation is significantly less on Cells 4, 5, and 6. The lesser density is attributed to the prescribed burn that was conducted in March 2016, followed by spring herbicide treatment to the woody vegetation that survived the fire. These same management efforts are effective in managing invasive herbaceous species as well.

Numerous woody vegetation and invasive herbaceous findings were identified during the inspection. Each individual tree or shrub was not recorded in the field or entered into the database. Instead, one finding of "invasive woody and herbaceous vegetation" was identified for each individual cell cap. The findings will be addressed using various methods, including prescribed burning and herbicide treatments. Cell Caps 7 and 8 are scheduled for prescribed burn in the early spring of 2017.

Mr. David Seely
Mr. Thomas Schneider
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Findings from all of these inspections have been added to the site maintenance database and are included in the *Fernald Maintenance and Repair Action Items Summary*; a printout is enclosed. Resolution of the findings is then tracked through the database. Items on the list that have been resolved since the previous inspection report are included in the report with the date and description of the resolution. Previously reported items that have been resolved are removed from the list. The resolution of older findings can be found in previous quarterly inspection reports.

The 2017 inspection schedule is as follows:

DATE	INSPECTION TYPE	REPORT DATE
January 11, 2017	Site Central Quadrant	March 31, 2017
February 8, 2017	Site South Quadrant	March 31, 2017
March 1, 2017	OSDF Toe, Site East Quadrant, PSIC	March 31, 2017
June 7, 2017	OSDF Toe, PSIC	June 30, 2017
September 7, 2017	OSDF Toe, PSIC	September 29, 2017

If you have any questions or require additional information, please call me at (513) 648-3333. Please send any correspondence to my attention at:

U.S. Department of Energy
Office of Legacy Management
10995 Hamilton-Cleves Hwy.
Harrison, OH 45030

Sincerely,
SUSAN
SMILEY
Susan Smiley
Fernald Preserve Site Manager
DOE-LM-20.2

Digitally signed by SUSAN SMILEY
DN: c=US, o=U.S. Government,
ou=Department of Energy, cn=SUSAN SMILEY,
0.9.2342.19200300.100.1.1=89001000223787
Date: 2017.01.09 07:48:43 -05'00'

Enclosure

cc w/enclosure:

M. Murphy, USEPA-V, A-18J
M. Rubadue, ODH
T. Schneider, OEPA (three copies of enclosure)
Project Record File FER 115.02.05(A) (thru M. Korte)
Administrative Records (thru M. Korte)

cc w/o enclosure:

(electronic)
G. Hooten, DOE-LM
T. Smith Taylor, DOE-LM
B. Hertel, Navarro
J. Homer, Navarro
L. McHenry, Navarro

U.S. Department of Energy Office of Legacy Management

Fernald Preserve Field Walkdown Inspection Summary

Beginning: 12/07/2016

Ending: 12/07/2016

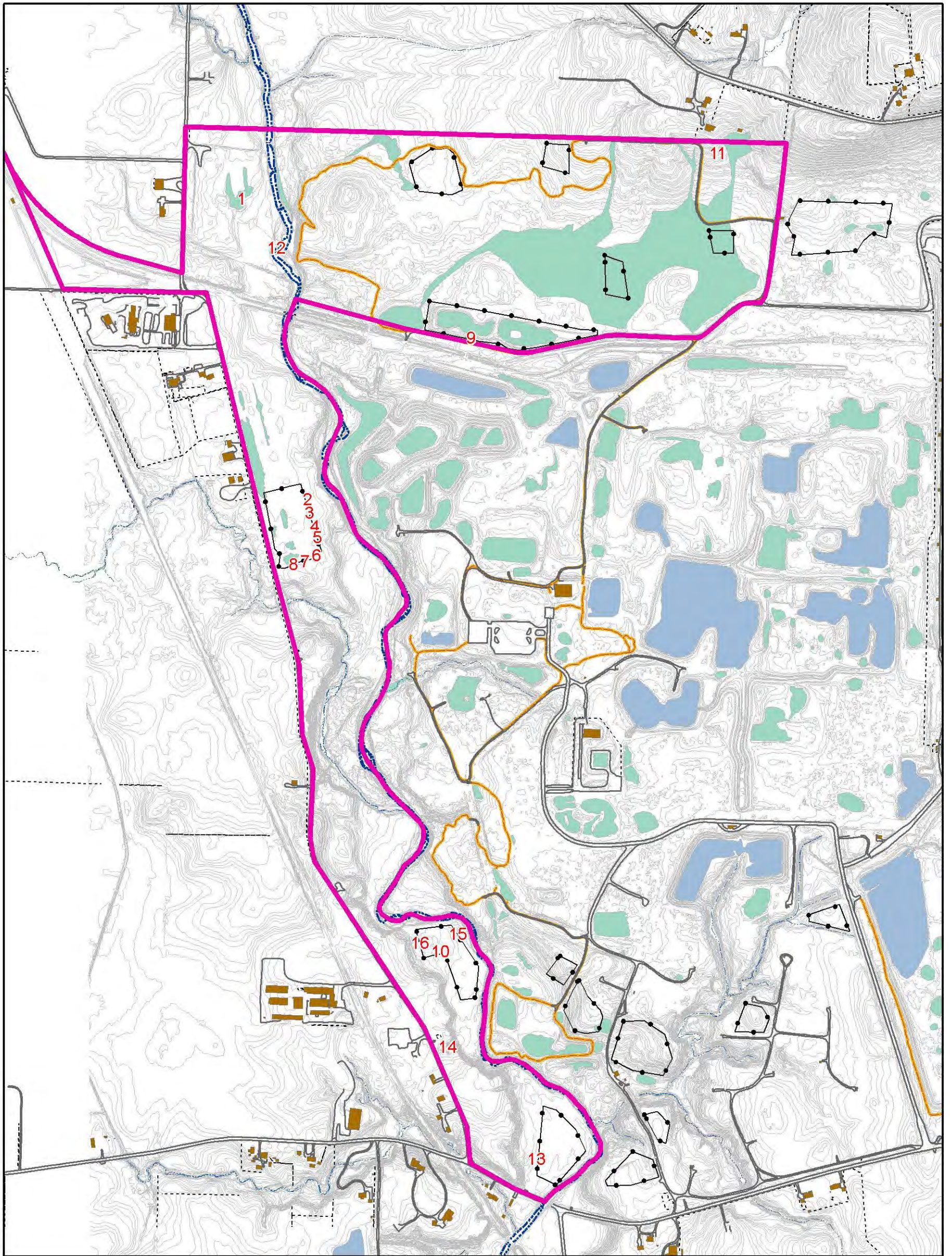
Area(s): West Quadrant

Inspector(s): Ohio EPA, Ohio Department of Health and Navarro

Map No.	Location	GPS?	Type of Finding	Description	Photo? (File No.)
1	By Pond	Yes	Other	Old coverboards around pond need to be removed	12072016_43_01
2	East side of deer fence	Yes	Fencing	Hole in deer fence	12072016_43_02
3	East side of deer fence	Yes	Fencing	Hole in deer fence	12072016_43_03
4	East side of deer fence	Yes	Fencing	Deer fence gate is down	12072016_43_04
5	East side of deer fence	Yes	Fencing	Hole in deer fence	12072016_43_05
6	South side of deer fence	Yes	Fencing	Hole in deer fence	12072016_43_06
7	South side of deer fence	Yes	Fencing	Hole in deer fence	12072016_43_07
8	South side of deer fence	Yes	Fencing	Hole in deer fence	12072016_43_08
9	South side of deer fence, along Hickory Trail	Yes	Fencing	Hole in deer fence	12072016_41_01
10	West side of deer fence	Yes	Fencing	Hole in deer fence	12072016_41_03
11	In ditch south of trail	No	Other	Top of car battery and trash	
12	Adjacent to Paddys Run	No	Other	Remains of a buck; the hide of which appears to have been removed in one piece.	
13	West side of fence	No	Fencing	Hole in deer fence	

Map No.	Location	GPS?	Type of Finding	Description	Photo? (File No.)
14	Drainage south of Duke Energy station	Yes	Debris	Concrete	12072016_41_02
15	East side of deer fence	No	Fencing	Hole in deer fence	
16	West side of deer fence	No	Fencing	Hole in deer fence	

Additional Notes



16 Inspection Finding

- | | | | |
|---|-----------------|--|-------------------|
|  | Inspection Area |  | Road |
|  | Open Water |  | Trail |
|  | Wetland Basin |  | Fence |
|  | Deer Fence |  | Paddys Run |
|  | Building |  | Stream |
| | |  | Elevation Contour |

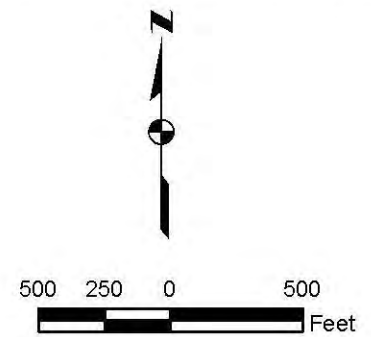


Figure 1
West Quadrant Inspection Findings, December 2016

Fernald Preserve Institutional Control Inspection

Date Dec. 2016 Inspector Navarro Area Institutional Controls

Institutional Control	Type of Finding (See Definitions Page)				Description	Photo? (File No.)	Follow Up		
	Signage	Barrier	Groundskeeping	Other			Corrected	Maintenance Req'd	Cont. Observation
Access Points									
South Access					NO FINDINGS				
North Access					NO FINDINGS				
Eco Park					NO FINDINGS				
Forest Demo					NO FINDINGS				
Perimeter Authorized Vehicle Access									
					NO FINDINGS				
Perimeter Signage									
S42	X				Sign removed during a construction project; needs reinstalled			X	
S1	X				Sign is bent			X	
Fencing									
CAWWT					NO FINDINGS				
OSDF					NO FINDINGS				
Utility					NO FINDINGS				
Trestle					NO FINDINGS				
Interior Authorized Vehicle Access									
VV		X			Hardware on barrier should be replaced			X	
Buildings and Structures									
Communication Building					NO FINDINGS				
Dissolved Oxygen Building					NO FINDINGS				
Restoration Storage Shed					NO FINDINGS				
Other IC									
60-Inch Culvert					NO FINDINGS				
Uncertified Areas					NO FINDINGS				
Roads and Parking Areas					NO FINDINGS				
Trails and Overlooks					NO FINDINGS				

Fernald Preserve Institutional Control Inspection (continued)

Date Dec. 2016 Inspector Navarro Area Institutional Controls

Additional Notes

NONE

U.S. Department of Energy Office of Legacy Management

Fernald Preserve OSDF Walkdown Inspection Summary

Beginning: 12/01/2016

Ending: 12/01/2016

Area(s): OSDF cap, toe, fence line and drainages

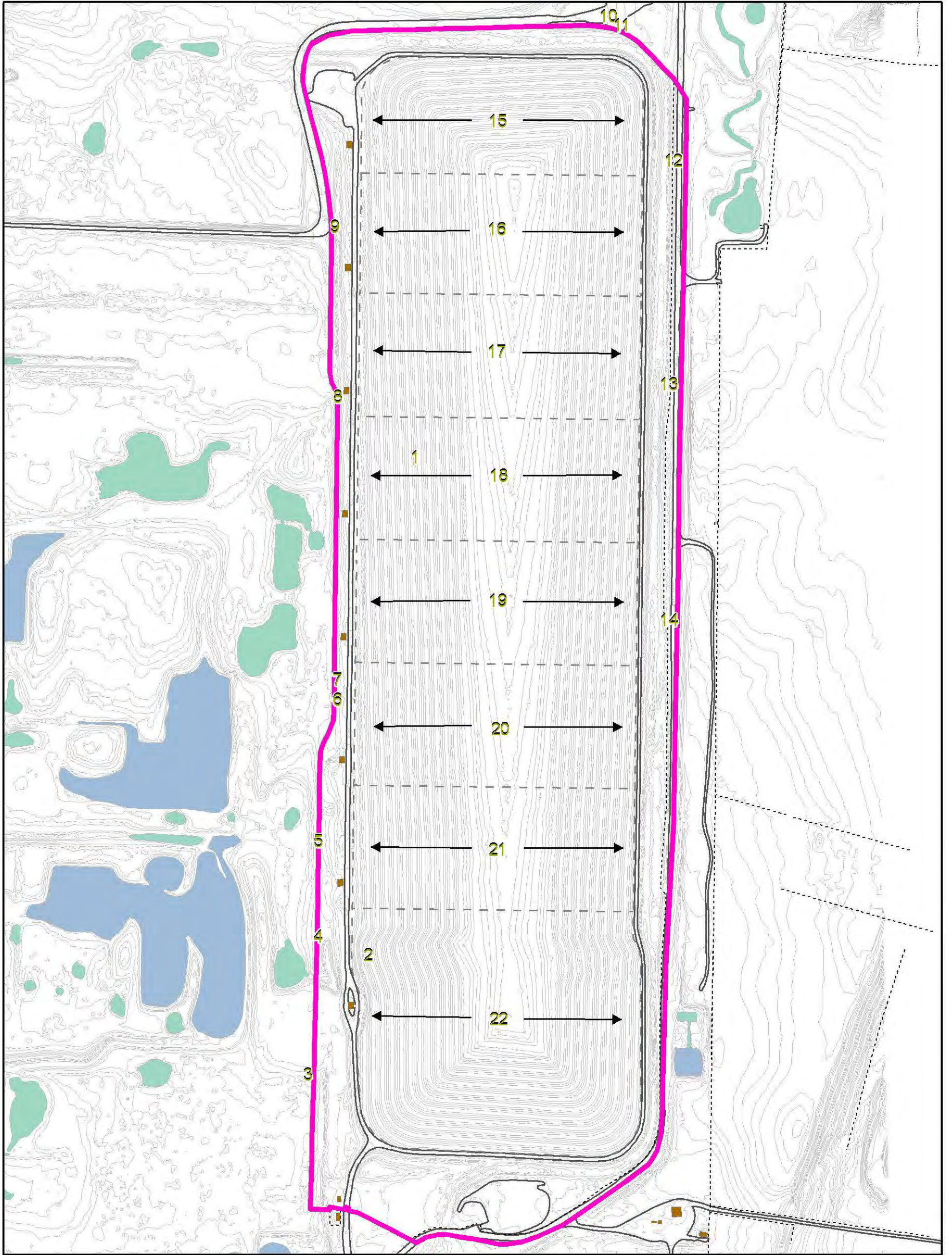
Inspector(s): Ohio Department of Health and Navarro

Map No.	Location	GPS?	Type of Finding	Description	Photo? (File No.)
1	Cell 4, west face	Yes	Rock	Rock	12012016_41_03
2	Cell 8, west toe	Yes	Biointrusion	Groundhog burrow	12012016_44_03
3	West perimeter fence at Cell 8	Yes	Biointrusion	Animal burrow under fence	12012016_43_03
4	West perimeter fence at north end of Cell 8	Yes	Biointrusion	Animal burrow under fence	12012016_43_04
5	West perimeter fence at Cell 7	Yes	Biointrusion	Burrow under fence	12012016_43_05
6	West perimeter fence at Cell 6	Yes	Fencing	Tree in fence	12012016_43_06
7	West perimeter at north end of Cell 6	Yes	Fencing	Damaged fence post	12012016_43_07
8	West perimeter fence behind VH 3	Yes	Biointrusion	Animal burrow	12012016_43_08
9	West outer drainage at Cell 2	Yes	Other	Standing water in drainage	12012016_43_09
10	North perimeter fence	Yes	Biointrusion	Animal burrow under fence	12012016_43_10
11	North perimeter fence	Yes	Biointrusion	Animal burrow under fence	12012016_43_11
12	East perimeter fence at Cell 1	Yes	Biointrusion	Animal burrow under fence	12012016_43_12
13	East perimeter fence at Cell 3	Yes	Biointrusion	Animal burrow under fence	12012016_43_13
14	East perimeter fence at Cell 5	Yes	Biointrusion	Animal burrow under fence	12012016_43_14

Map No.	Location	GPS?	Type of Finding	Description	Photo? (File No.)
15	Across Cell 1 cap	No	Vegetation	Scattered invasive woody and herbaceous vegetation	
16	Across Cell 2 cap	No	Vegetation	Scattered invasive woody and herbaceous vegetation	
17	Across Cell 3 cap	No	Vegetation	Scattered invasive woody and herbaceous vegetation	
18	Across Cell 4 cap	No	Vegetation	A few invasive woody and herbaceous vegetation	
19	Across Cell 5 cap	No	Vegetation	Scattered invasive woody and herbaceous vegetation	
20	Across Cell 6 cap	No	Vegetation	Scattered invasive woody and herbaceous vegetation	
21	Across Cell 7 cap	No	Vegetation	Scattered invasive woody and herbaceous vegetation	
22	Across Cell 8 cap	No	Vegetation	Scattered invasive woody and herbaceous vegetation	

Additional Notes

OSDF cap walk-down was an east/west transect



16 Inspection Finding

→ Finding Extent

Inspection Area

Open Water

Wetland Basin

Building

Fence

OSDF Cell Boundary

Road

Elevation Contour

200 100 0 200 Feet



Figure 2
OSDF Inspection Findings, December 2016

FERNALD PRESERVE

On-Site Disposal Facility

Inspection Photographs

December 2016



U.S. DEPARTMENT OF
ENERGY

Legacy
Management



IMGP6000

East Face Cell 1



IMGP5995

West Face Cell 1



IMGP5998

North Face Cell 1



IMGP5999

North Drainage (looking west)



IMGP6002

East Face Cell 2



IMGP5994

West Face Cell 2



IMGP6003

East Face Cell 3



IMGP5993

West Face Cell 3



IMGP6004

East Face Cell 4



IMGP5991

West Face Cell 4



IMGP6006

East Face Cell 5



IMGP5990

West Face Cell 5



IMGP6007

East Face Cell 6



IMGP5989

West Face Cell 6



IMGP6008

East Face Cell 7



IMGP5987

West Face Cell 7



IMGP6010

East Face Cell 8



IMGP5984

West Face Cell 8



IMGP6012

South Face Cell 8



IMGP6011

South Drainage (looking west)



IMGP6009a

East Drainage Cell 7 (looking south)



IMGP6005

East Drainage Cell 4 (looking south)



IMGP6001

East Drainage Cell 1 (looking south)



IMGP5988

West Inner Drainage Cell 7 (looking south)



IMGP5992

West Inner Drainage Cell 4 (looking south)



IMGP5997

West Inner Drainage Cell 1 (looking south)



IMGP5996

West Outer Drainage Cell 1 (looking south)



IMGP5986

West Outer Drainage Cell 8 (looking south)



IMGP5985

West Outer Drainage Cell 8 (looking north)

FERNALD PRESERVE MAINTENANCE AND REPAIR ACTION ITEMS SUMMARY
DECEMBER 2016 UPDATE

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
856	Duke Energy substation	No	Honeysuckle all along bank east of Duke Energy substation	12/14/2009	December 2009 quarterly field walkdown	11	Herbicide applied	11/16/2016	Large-scale woody invasives are addressed on a prioritized schedule
1013	South side of south pines deer fence	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	45			Large-scale woody invasives are addressed on a prioritized schedule
1020	Southeast of "dance hall"	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	52	Herbicide applied	11/3/2016	Large-scale woody invasives are addressed on a prioritized schedule
1022	Drainage west of northern most well in south field	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	54	Herbicide applied	11/2/2016	Large-scale woody invasives are addressed on a prioritized schedule.
1291	North pines	No	Honeysuckle along woodline	9/7/2011	September 2011 quarterly field walkdown	10			Large-scale woody invasives are addressed on a prioritized schedule
1466	Shingle Oak Trail	No	Teasel	6/5/2012	June 2012 quarterly field walkdown	24			
1468	Drainage area	No	Garlic mustard	6/5/2012	June 2012 quarterly field walkdown	26			
1671	Behind Valve House (VH) 8	No	Culvert pipe	3/12/2013	March 2013 OSDF Inspection	HS13			
1739	East bank Paddys Run	No	Multiflora rose	6/6/2013	June 2013 quarterly field walkdown	52			
1741	Overlook on Shingle Oak Trail at pond	No	Pear	6/6/2013	June 2013 quarterly field walkdown	54	Tree cut and herbicide applied to stump	10/28/2016	
1774	Hill along State Route 126	No	Teasel and honeysuckle	9/4/2013	September 2013 quarterly field walkdown	3			Large-scale woody invasives are addressed on a prioritized schedule

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
1781	Hill along State Route 126	No	Honeysuckle	9/4/2013	September 2013 quarterly field walkdown	10			Large-scale woody invasives are addressed on a prioritized schedule
1788	WM1 W4 between pond and swale	No	Honeysuckle	9/4/2013	September 2013 quarterly field walkdown	17			
1790	By well south of WM1	No	Callery pear	9/4/2013	September 2013 quarterly field walkdown	19	Herbicide applied	11/3/2016	
1798	Cell 2, east 6:1	No	Rock/concrete	9/10/2013	September 2013 OSDF Inspection	JH7	No action required at this time	12/27/2016	Unable to locate
1817	West fence at Cell 7/8	No	Debris	9/10/2013	September 2013 OSDF Inspection	HS19	No action required at this time	12/29/2016	Unable to locate
1839	Deer fence	No	Fence overgrown	12/3/2013	December 2013 quarterly field walkdown	17			OK to remove fence
1840	Floodplain	No	Deer cages can be removed	12/3/2013	December 2013 quarterly field walkdown	18	Deer cages removed	12/29/2016	Deer cages can be removed
1848	Southeast of chestnut plot	No	Remove tree fence	12/3/2013	December 2013 quarterly field walkdown	26	Deer cage removed	12/8/2016	Photo taken by inspector
1910	Northwest of Skillet Pond	No	Concrete	3/10/2014	March 2014 quarterly field walkdown	53	No action required at this time	12/27/2016	Unable to locate
2109	West edge of W6	No	Trash	9/3/2014	September 2014 quarterly field walkdown	15	Trash removed	12/12/2016	
2110	West edge W4	No	Trash	9/3/2014	September 2014 quarterly field walkdown	16	Trash removed	12/12/2016	
2158	West fence at VH 4	No	Water flow from under culvert	9/5/2014	September 2014 OSDF Inspection	44	No action is required at this time	12/29/2016	Continue to monitor

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2231	North of east end of WM2	No	Stand of teasel	12/4/2014	December 2014 quarterly field walkdown	1			
2232	East and north of service road, northwest of WM2	No	Pear tree	12/4/2014	December 2014 quarterly field walkdown	2			
2235	West of north/south section of Hickory Trail	No	Autumn olive	12/4/2014	December 2014 quarterly field walkdown	5			
2245	WM2 wetlands	No	Deer cages still present	12/4/2014	December 2014 quarterly field walkdown	9			Cages may be removed
2270	75 yards east of Well House 28	No	Glazed tile	1/14/2015	January 2015 quarterly field walkdown	25	No action required at this time	12/29/2016	Unable to locate
2272	Written description of location not provided	No	Erosion	1/14/2015	January 2015 quarterly field walkdown	27			September 2015 - Some stabilization starting; grass is growing
2276	Former waste pits area (FWP) W7	No	Erosion, hole	1/14/2015	January 2015 quarterly field walkdown	31			
2286	North of Southern Waste Units (SWU) near SSOD	No	Erosion	2/10/2015	February 2015 quarterly field walkdown	3			
2293	Between trail and deer fence west of trail	No	Phragmites	2/10/2015	February 2015 quarterly field walkdown	10			
2296	Area inside wooded loop of Sycamore Trail, west of pines	No	Old cages	2/10/2015	February 2015 quarterly field walkdown	13			
2301	SSOD, below well house	No	Cages next to creek	2/10/2015	February 2015 quarterly field walkdown	18			
2309	East of Shingle Oak Trail between PRE- PP1 sections	No	Asphalt	2/10/2015	February 2015 quarterly field walkdown	26	No action required at this time	12/29/2016	Unable to locate

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2322	East perimeter at fence	No	Metal pipe in ground; hole under fence	3/11/2015	March 2015 OSDF Inspection	12			Cut off pipe; hole to be addressed
2331	South perimeter field between fence and gravel road	No	Field of bull thistle	3/11/2015	March 2015 OSDF Inspection	20			
2346	W4 swale	No	Honeysuckle	3/12/2015	March 2015 quarterly field walkdown	2			Large-scale woody invasives are addressed on a prioritized schedule
2353	Northwest of power line tower along ditch	No	Fresh erosion on bank possibly from muskrats	3/12/2015	March 2015 quarterly field walkdown	9			
2358	Monitoring Wells 2431 and 3431	No	Water collecting around well pads; terrain needs altered to drain surface water away from wells	3/12/2015	March 2015 quarterly field walkdown	14			
2365	Bottom of slope	No	Geotextile material	3/12/2015	March 2015 quarterly field walkdown	21	Geotextile material removed	12/12/2016	
2366	East of Cell 8, north of former Sewerage Treatment Plant Pond	No	Concrete slab	3/12/2015	March 2015 quarterly field walkdown	22	No action required at this time	12/29/2016	Unable to locate
2395	South prairie area near gate	No	Scattered musk thistle	6/3/2015	June 2015 OSDF Inspection	24			
2396	South drainage (east/west)	No	Honeysuckle, canada thistle, pear, musk thistle, multiflora rose	6/3/2015	June 2015 OSDF Inspection	25	Herbicide applied	10/19/2016	
2413	East perimeter road at Cell 1/2 boundary	No	Honeysuckle	6/4/2015	June 2015 OSDF Inspection	42			
2424	East drainage at Cell 2	No	Grape vine, Virginia creeper, honeysuckle	6/3/2015	June 2015 OSDF Inspection	53	Herbicide applied	10/17/2016	
2425	East drainage at Cell 2, south end	No	Honeysuckle, virginia creeper	6/3/2015	June 2015 OSDF Inspection	54	Herbicide applied	10/17/2016	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2460	Along west edge of road, south of VH 8	No	Callery pear	6/3/2015	June 2015 OSDF Inspection	NA	Herbicide applied	10/25/2016	Finding not identified on map
2461	Across from VH 5	No	Honeysuckle	6/3/2015	June 2015 OSDF Inspection	NA			Finding not identified on map
2478	East toe of Cell 3 near Cell 2/3 boundary	No	Canada thistle	9/2/2015	September 2015 OSDF Inspection	14			
2479	East toe of Cell 3 near Cell 3/4 boundary	No	Canada thistle	9/2/2015	September 2015 OSDF Inspection	15			
2487	North drainage	No	Willow	9/3/2015	September 2015 OSDF Inspection	23	Herbicide applied	10/17/2016	
2496	East perimeter fence at Cell 8	No	Hole under fence	9/3/2015	September 2015 OSDF Inspection	32			
2497	South drain	No	Cottonwood	9/3/2015	September 2015 OSDF Inspection	33	Herbicide applied	10/19/2016	
2498	Field by south gate	No	Thistle	9/3/2015	September 2015 OSDF Inspection	34	Herbicide applied	10/25/2016	
2499	Along south entrance road at west end of south drain	No	Honeysuckle	9/3/2015	September 2015 OSDF Inspection	35	Herbicide applied	10/25/2016	
2501	West fence at Cell 8	No	Honeysuckle growing into fence	9/3/2015	September 2015 OSDF Inspection	37			
2502	West drain at Cell 8	No	Teasel	9/3/2015	September 2015 OSDF Inspection	38			
2546	Cell 3, west slope, near toe	No	Teasel patches	12/2/2015	December 2015 OSDF Inspection	37			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2556	Cell 3, east slope, near toe	No	Thistle and black matting	12/2/2015	December 2015 OSDF Inspection	47			
2561	Cell 8, east slope, in line with pond on east perimeter	No	Animal burrow	12/2/2015	December 2015 OSDF Inspection	52	No action required at this time	12/29/2016	Unable to locate
2573	Cell 3, west slope, near midpoint	No	Geotextile fabric	12/2/2015	December 2015 OSDF Inspection	64	No action required at this time	12/29/2016	Unable to locate
2575	Cell 8, west slope, north end	No	Animal burrow	12/2/2015	December 2015 OSDF Inspection	66	No action required at this time	12/29/2016	Unable to locate
2580	Cell 3, east slope	No	Clay tile (3" x 5")	12/2/2015	December 2015 OSDF Inspection	71	No action required at this time	12/29/2016	Unable to locate
2615	Cell 3, east slope	No	Erosion/burrow	12/2/2015	December 2015 OSDF Inspection	106			
2617	Cell 3, west slope, near toe, near midpoint	No	Musk and bull thistle patches	12/2/2015	December 2015 OSDF Inspection	108			
2624	Cell 8, west slope, near toe, across from VH8	No	Canada thistle	12/2/2015	December 2015 OSDF Inspection	115			
2627	East end of south laydown area	No	Teasel and thistle	12/2/2015	December 2015 OSDF Inspection	118	Herbicide applied	10/6/2016	
2634	Cell 1, northeast corner drain	No	Canada thistle and teasel	12/2/2015	December 2015 OSDF Inspection	125	Herbicide applied	10/17/2016	
2636	Cell 1, northwest corner drain	No	Teasel	12/2/2015	December 2015 OSDF Inspection	127	Herbicide applied	10/17/2016	
2637	Cell 1, west drain, behind VH 1	No	Teasel	12/2/2015	December 2015 OSDF Inspection	128	Herbicide applied	10/19/2016	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2638	Cell 2, west drain, next to fence	No	Unknown grass (invasive) and teasel	12/2/2015	December 2015 OSDF Inspection	129			
2639	Cell 3, west drain, next to fence	No	Teasel and cedar	12/2/2015	December 2015 OSDF Inspection	130			The woody vegetation was cut and herbicide applied on 12/10/2015, but the herbaceous vegetation was not treated
2642	Cell 5, west drain, behind VH 5	No	Teasel	12/2/2015	December 2015 OSDF Inspection	133			
2644	Cell 7, west drain, behind VH 7	No	Teasel	12/2/2015	December 2015 OSDF Inspection	135			
2648	Cell 2, west slope, near midpoint	No	Thistle	12/2/2015	December 2015 OSDF Inspection	139			
2649	Cell 3, west slope, near midpoint	No	Large patch of thistle	12/2/2015	December 2015 OSDF Inspection	140			
2651	Cell 7, west slope, north end, extending east/west along slope	No	Large thistle patch	12/2/2015	December 2015 OSDF Inspection	142			
2652	Cell 7, west slope, near midpoint	No	Large patch of teasel	12/2/2015	December 2015 OSDF Inspection	143			
2653	Cell 1, northeast corner drain, on riprap bank	No	Thistle	12/2/2015	December 2015 OSDF Inspection	144	Herbicide applied	10/17/2016	
2654	Northwest corner of fenced in area	No	Hole in fence	12/8/2015	December 2015 quarterly field walkdown	1			
2657	In lower field near Paddys Run	No	Old cages cutting into bark of trees; cages need to be removed	12/8/2015	December 2015 quarterly field walkdown	4			
2658	South field	No	Old cages	12/8/2015	December 2015 quarterly field walkdown	5			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2659	At base of hill on west side	No	Old cages	12/8/2015	December 2015 quarterly field walkdown	6			
2661	Northwest corner of chestnut plot fence	No	Damage to fence	12/8/2015	December 2015 quarterly field walkdown	8			
2662	North of chestnut plot	No	Snow fence around well is down	12/8/2015	December 2015 quarterly field walkdown	9	Snow fence repaired/rehung	12/29/2016	
2673	South of east/west drainage	No	Widespread teasel	1/28/2016	January 2016 quarterly field walkdown	6			
2675	Northwest of "serpent" wetland	No	Disturbed soil with gravel	1/28/2016	January 2016 quarterly field walkdown	8			
2684	North of road	No	Glazed tile	1/28/2016	January 2016 quarterly field walkdown	NA			Finding not identified on map
2685	East of CAWWT	No	Teasel	1/28/2016	January 2016 quarterly field walkdown	NA			Finding not identified on map
2686	Paddys Run Streambank Stabilization Project access road	No	Minor erosion rill	1/28/2016	January 2016 quarterly field walkdown	16	No action required at this time	12/29/2016	Erosion rill appears stable; continue to monitor
2688	3B south, east of Skillet Pond	No	T-posts need removed	1/28/2016	January 2016 quarterly field walkdown	18			
2693	Waste pit/pond drain	No	No ropes on on t-posts marking boundary of erosion area	1/28/2016	January 2016 quarterly field walkdown	23			
2694	Waste pit/pond drain	No	Posts are down in drain	1/28/2016	January 2016 quarterly field walkdown	24			
2695	Pit 3	No	Posts and wire fence need removed (tree cages)	1/28/2016	January 2016 quarterly field walkdown	25			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2710	In the pines, just east of the east branch of the Shingle Oak Trail	No	Old cages need removed	2/23/2016	February 2016 quarterly field walkdown	10			
2712	Slope east of drainage that flows north from off site	No	Old deer cages need removed	2/23/2016	February 2016 quarterly field walkdown	12			
2713	West edge of west branch of Shingle Oak Trail at prairie pocket	No	Teasel	2/23/2016	February 2016 quarterly field walkdown	13			
2714	East edge of prairie strip north of boardwalk	No	Teasel	2/23/2016	February 2016 quarterly field walkdown	14			
2723	In erosion ditch on the east edge of prairie south of Storm Water Retention Basin and west of Storm Sewer Outfall Ditch	No	Acid brick/concrete	2/23/2016	February 2016 quarterly field walkdown	23	Debris was surveyed and free released	12/28/2016	Debris was surveyed and free released
2724	In drainage just south of where it leaves Storm Water Retention Basin	No	Vac hose/debris	2/23/2016	February 2016 quarterly field walkdown	24			
2725	West side of silos ponds	No	Teasel across area	2/23/2016	February 2016 quarterly field walkdown	25			
2726	Woodlot between pines and Sycamore Trail	No	T-posts and cages down	2/23/2016	February 2016 quarterly field walkdown	26			
2727	Above concrete slab wall	No	Teasel	2/23/2016	February 2016 quarterly field walkdown	27			
2728	SWU - south of wall, north of trail	No	Teasel	2/23/2016	February 2016 quarterly field walkdown	28			
2729	SWU - south edge of trail	No	Teasel	2/23/2016	February 2016 quarterly field walkdown	29			
2730	SWU - inside trail loop	No	Teasel	2/23/2016	February 2016 quarterly field walkdown	30			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2731	SWU - inside trail loop, south side of basin	No	Teasel	2/23/2016	February 2016 quarterly field walkdown	31			
2732	Northwest of substation	No	Teasel	2/23/2016	February 2016 quarterly field walkdown	32			
2735	North of the pines just east of north access road	No	Old cages	3/2/2016	March 2016 quarterly field walkdown	2			
2736	East of pond north of former Dissolved Oxygen Building	No	Concrete	3/2/2016	March 2016 quarterly field walkdown	3	No action required at this time	12/27/2016	Unable to locate
2743	Between swale and pond	No	Rebar sticking up about 1 foot out of ground	3/2/2016	March 2016 quarterly field walkdown	10			
2744	Cell 7, east toe	No	Woody vegetation	3/2/2016	March 2016 OSDF Inspection	1	Herbicide applied	10/18/2016	
2745	Cell 3/4 boundary along fence	No	Cedar	3/2/2016	March 2016 OSDF Inspection	2			
2746	East drain at Cell 3, along fence	No	Woody vegetation	3/2/2016	March 2016 OSDF Inspection	3	Herbicide applied	10/18/2016	
2747	East drain at Cell 3 along fence	No	Trash	3/2/2016	March 2016 OSDF Inspection	4			
2749	At fence between VH 3 and 4	No	Cedar	3/2/2016	March 2016 OSDF Inspection	6			
2750	At fence	No	Cedar	3/2/2016	March 2016 OSDF Inspection	7	Herbicide applied	10/18/2016	
2751	East drain at fence	No	Cedar	3/2/2016	March 2016 OSDF Inspection	8	Herbicide applied	10/18/2016	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2768	Hickory Trail	No	Water flowing over trail at emergency spillway and erosion cutting into bank	12/28/2015	Weekly Trail Inspection	NA	No action required at this time	12/29/2016	Continue to monitor
2769	Weapons to Wetland trail	No	Standing and flowing water on trail	12/22/2015	Weekly Trail Inspection	NA	No action required at this time	12/29/2016	Continue to monitor
2770	North drainage	No	Woody vegetation throughout the length of the north drainage	6/1/2016	June 2016 OSDF Inspection	1	Herbicide applied to woody vegetation throughout the length of the north drainage	10/17/2016	To reduce finding identification "congestion" on the map, several findings were grouped together into one identification
2771	East drainage	No	Woody vegetation throughout the length of the east drainage	6/1/2016	June 2016 OSDF Inspection	2	Herbicide applied to woody vegetation throughout the length of the east drainage	10/19/2016	To reduce finding identification "congestion" on the map, several findings were grouped together into one identification
2772	South drainage	No	Woody vegetation throughout the length of the south drainage	6/1/2016	June 2016 OSDF Inspection	3	Herbicide applied to woody vegetation throughout the length of the south drainage	10/19/2016	To reduce finding identification "congestion" on the map, several findings were grouped together into one identification
2773	West drainage	No	Woody vegetation throughout the length of the west drainage	6/1/2016	June 2016 OSDF Inspection	4	Herbicide applied to woody vegetation throughout the length of the west drainage	10/25/2016	To reduce finding identification "congestion" on the map, several findings were grouped together into one identification
2774	Cell 1/2 boundary, east drainage in riprap	No	Teasel patch growing in riprap	6/1/2016	June 2016 OSDF Inspection	5	Herbicide applied	10/17/2016	
2775	Cell 8, on west edge of road at southwest corner	No	Teasel patch growing in riprap	6/1/2016	June 2016 OSDF Inspection	6			
2776	Cell 1, east fenceline	No	Animal burrow under the fence	6/1/2016	June 2016 OSDF Inspection	7			
2777	Southeast corner in riprap along fenceline	No	Crown vetch	6/1/2016	June 2016 OSDF Inspection	8	Herbicide applied	10/6/2016	
2786	Cell 8, east toe	No	Thistle and honeysuckle	6/1/2016	June 2016 OSDF Inspection	17	Herbicide applied	10/19/2016	
2788	Cell 8, west toe	No	Cedar tree in riprap	6/1/2016	June 2016 OSDF Inspection	19			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2789	Cell 8, in riprap near valve house	No	Various woody vegetation in riprap	6/1/2016	June 2016 OSDF Inspection	20			
2790	Cell 7, west toe	No	Various woody vegetation in riprap	6/1/2016	June 2016 OSDF Inspection	21			
2791	Cell 7, west toe	No	Woody vegetation	6/1/2016	June 2016 OSDF Inspection	22			
2792	Cell 6, west toe in riprap	No	Woody vegetation	6/1/2016	June 2016 OSDF Inspection	23			
2801	North perimeter of Fernald Preserve	No	Perimeter sign S46 needs branches and brush cut away	6/2/2016	June 2016 point-specific institutional controls inspection	NA			
2805	Cell 4, west inner drainage	No	Cattails in drainage	9/6/2016	September 2016 OSDF Inspection	4	No action required at this time	12/29/2016	Continue to monitor
2806	Cell 6, west inner drainage	No	Woody vegetation	9/6/2016	September 2016 OSDF Inspection	5			
2807	Cell 8, west inner drainage	No	Woody vegetation throughout drainage	9/6/2016	September 2016 OSDF Inspection	6			
2808	Cell 8, southeast slope of cap, several locations	No	Honeysuckle and pear	9/6/2016	September 2016 OSDF Inspection	7			
2812	Cell 1, north toe at reasearch well	No	Survey marker, used to indicate location of well, is down	9/6/2016	September 2016 OSDF Inspection	11			
2818	Cell 3, west toe	No	Sandy dirt pile	9/6/2016	September 2016 OSDF Inspection	17			
2824	Cell 4, west toe, north end	No	Cherry tree	9/6/2016	September 2016 OSDF Inspection	23			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2825	Cell 4, west toe, near VH about 5 feet up slope	No	Callery pear	9/6/2016	September 2016 OSDF Inspection	24			
2826	Cell 6, west toe, north end	No	Honeysuckle	9/6/2016	September 2016 OSDF Inspection	25			
2827	Cell 8, west toe	No	Groundhog hole	9/6/2016	September 2016 OSDF Inspection	26			
2828	Cell 8, west slope about 30 feet upslope from the toe	No	Mulberry	9/6/2016	September 2016 OSDF Inspection	27			
2837	Cell 5, west drainage, north end	No	Woody vegetation	9/6/2016	September 2016 OSDF Inspection	36	Herbicide applied	10/25/2016	
2838	Cell 5, west drainage, midpoint	No	Various woody vegetation	9/6/2016	September 2016 OSDF Inspection	37	Herbicide applied	10/25/2016	
2839	Cell 6, west drainage, north end	No	Woody vegetation	9/6/2016	September 2016 OSDF Inspection	38	Herbicide applied	10/25/2016	
2840	Cell 7, west drainage, north end	No	Woody vegetation	9/6/2016	September 2016 OSDF Inspection	39	Herbicide applied	10/25/2016	
2841	Cell 8, west drainage, behind VH8	No	Woody vegetation	9/6/2016	September 2016 OSDF Inspection	40	Herbicide applied	10/25/2016	
2842	Cell 8, west drainage at riprap edge, south of VH8	No	Cottonwood	9/6/2016	September 2016 OSDF Inspection	41	Herbicide applied	10/25/2016	No flag
2843	Cell 8, west drainage, southwest corner	No	Mulberry	9/6/2016	September 2016 OSDF Inspection	42	Herbicide applied	10/25/2016	No flag
2844	Cell 8, southeast corner drainage	No	Woody vegetation and thistle	9/6/2016	September 2016 OSDF Inspection	43	Herbicide applied	10/19/2016	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2845	Cell 3, east drainage	No	Multiple woody vegetation in drainage near cattails	9/6/2016	September 2016 OSDF Inspection	44	Herbicide applied	10/18/2016	
2846	Cell 2, east drainage, north end	No	Willows in cattails	9/6/2016	September 2016 OSDF Inspection	45	Herbicide applied	10/17/2016	
2847	Cell 3, west drainage, north of VH3	No	Johnson grass	9/6/2016	September 2016 OSDF Inspection	46	Herbicide applied	10/4/2016	
2848	Cell 7, west drainage at fenceline	No	Woody vegetation	9/6/2016	September 2016 OSDF Inspection	47	Herbicide applied	10/25/2016	
2849	Cell 8, west drainage	No	Woody vegetation	9/6/2016	September 2016 OSDF Inspection	48	Herbicide applied	10/25/2016	
2850	Cell 8, west drainage, southwest corner	No	Hole under fencing	9/6/2016	September 2016 OSDF Inspection	49			
2851	Cell 1, north drainage	No	Phragmites	9/6/2016	September 2016 OSDF Inspection	50	Herbicide applied	10/17/2016	
2852	S4 along Willey Rd. near rainbow bridge	No	Weeds need trimmed away from sign/posts.	9/6/2016	September 2016 point-specific institutional controls inspection	NA			
2853	S5 along Willey Rd. near rainbow bridge	No	Weeds need trimmed away from sign/post	9/6/2016	September 2016 point-specific institutional controls inspection	NA			
2854	S6 along Willey Rd. at Paddys Run Rd. intersection	No	Weeds need trimmed away from sing/post	9/6/2016	September 2016 point-specific institutional controls inspection	NA			
2855	By Pond	Yes	Old coverboards around pond need to be removed	12/7/2016	December 2016 quarterly field walkdown	1			Camera L14643
2856	East side of deer fence	Yes	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	2	Deer fence repaired	12/13/2016	Camera L14643

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2857	East side of deer fence	Yes	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	3	Deer fence repaired	12/13/2016	Camera L14643
2858	East side of deer fence	Yes	Deer fence gate is down	12/7/2016	December 2016 quarterly field walkdown	4	Deer fence repaired	12/13/2016	Camera L14643
2859	East side of deer fence	Yes	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	5	Deer fence repaired	12/13/2016	Camera L14643
2860	South side of deer fence	Yes	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	6	Deer fence repaired	12/13/2016	Camera L14643
2861	South side of deer fence	Yes	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	7	Deer fence repaired	12/13/2016	Camera L14643
2862	South side of deer fence	Yes	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	8	Deer fence repaired	12/13/2016	Camera L14643
2863	South side of deer fence, along Hickory Trail	Yes	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	9			Camera L14641
2864	West side of deer fence	Yes	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	10			Camera L14641
2865	In ditch south of trail	No	Top of car battery and trash	12/7/2016	December 2016 quarterly field walkdown	11			
2866	Adjacent to Paddys Run	No	Remains of a buck; the hide of which appears to have been removed in one piece.	12/7/2016	December 2016 quarterly field walkdown	12	No action required. Ohio Department of Natural Resources was notified.	12/9/2016	The Ohio Department of Natural Resources conservation officer was notified in the event that illegal activity is taking place.
2867	West side of fence	No	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	13			
2868	Drainage south of Duke Energy station	Yes	Concrete	12/7/2016	December 2016 quarterly field walkdown	14			Camera L14641

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2869	East side of deer fence	No	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	15			
2870	West side of deer fence	No	Hole in deer fence	12/7/2016	December 2016 quarterly field walkdown	16			
2871	Cell 4, west face	Yes	Rock	12/1/2016	December 2016 OSDF Inspection	1			Camera L14641
2872	Cell 8, west toe	Yes	Groundhog burrow	12/1/2016	December 2016 OSDF Inspection	2			Camera L14644
2873	West perimeter fence at Cell 8	Yes	Animal burrow under fence	12/1/2016	December 2016 OSDF Inspection	3			Camera L14643
2874	West perimeter fence at north end of Cell 8	Yes	Animal burrow under fence	12/1/2016	December 2016 OSDF Inspection	4			Camera L14643
2875	West perimeter fence at Cell 7	Yes	Burrow under fence	12/1/2016	December 2016 OSDF Inspection	5			Camera L14643
2876	West perimeter fence at Cell 6	Yes	Tree in fence	12/1/2016	December 2016 OSDF Inspection	6			Camera L14643
2877	West perimeter at north end of Cell 6	Yes	Damaged fence post	12/1/2016	December 2016 OSDF Inspection	7			Camera L14643
2878	West perimeter fence behind VH 3	Yes	Animal burrow	12/1/2016	December 2016 OSDF Inspection	8			Camera L14643
2879	West outer drainage at Cell 2	Yes	Standing water in drainage	12/1/2016	December 2016 OSDF Inspection	9			
2880	North perimeter fence	Yes	Animal burrow under fence	12/1/2016	December 2016 OSDF Inspection	10			Camera L14643

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2881	North perimeter fence	Yes	Animal burrow under fence	12/1/2016	December 2016 OSDF Inspection	11			Camera L14643
2882	East perimeter fence at Cell 1	Yes	Animal burrow under fence	12/1/2016	December 2016 OSDF Inspection	12			Camera L14643
2883	East perimeter fence at Cell 3	Yes	Animal burrow under fence	12/1/2016	December 2016 OSDF Inspection	13			Camera L14643
2884	East perimeter fence at Cell 5	Yes	Animal burrow under fence	12/1/2016	December 2016 OSDF Inspection	14			Camera L14643
2885	Across Cell 1 cap	No	Scattered invasive woody and herbaceous vegetation	12/1/2016	December 2016 OSDF Inspection	15			Numerous findings were consolidated into one finding
2886	Across Cell 2 cap	No	Scattered invasive woody and herbaceous vegetation	12/1/2016	December 2016 OSDF Inspection	16			Numerous findings were consolidated into one finding
2887	Across Cell 3 cap	No	Scattered invasive woody and herbaceous vegetation	12/1/2016	December 2016 OSDF Inspection	17			Numerous findings were consolidated into one finding
2888	Across Cell 4 cap	No	A few invasive woody and herbaceous vegetation	12/1/2016	December 2016 OSDF Inspection	18			A few findings were consolidated into one finding
2889	Across Cell 5 cap	No	Scattered invasive woody and herbaceous vegetation	12/1/2016	December 2016 OSDF Inspection	19			A few findings were consolidated into one finding
2890	Across Cell 6 cap	No	Scattered invasive woody and herbaceous vegetation	12/1/2016	December 2016 OSDF Inspection	20			A few findings were consolidated into one finding
2891	Across Cell 7 cap	No	Scattered invasive woody and herbaceous vegetation	12/1/2016	December 2016 OSDF Inspection	21			Several findings were consolidated into one finding
2892	Across Cell 8 cap	No	Scattered invasive woody and herbaceous vegetation	12/1/2016	December 2016 OSDF Inspection	22			Several findings were consolidated into one finding